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l3 and (content or history or profile or path or site or address).ti,ab,clm.	54

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USPT	cache.ti,ab,clm. and (web or page or site).ti,ab,clm.	663	<u>L1</u>

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L4: Entry 3 of 54

File: USPT

Feb 6, 2001

US-PAT-NO: 6185608

DOCUMENT-IDENTIFIER: US 6185608 B1

TITLE: Caching dynamic web pages

DATE-ISSUED: February 6, 2001

INVENTOR-INFORMATION:

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APPL-NO: 9/ 096305

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INT-CL: [7] G06F 13/38, G06F 15/17

US-CL-ISSUED: 709/216; 707/10

US-CL-CURRENT: 709/216; 707/10

FIELD-OF-SEARCH: 709/203, 709/245, 709/229, 709/205, 709/246, 709/248, 709/213-216, 707/203, 707/10

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

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PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/> <u>5920725</u>	July 1999	Ma et al.	707/203
<input type="checkbox"/> <u>5991773</u>	November 1999	Tagawa	707/203
<input type="checkbox"/> <u>6003087</u>	December 1999	Housel, III et al.	709/229
<input type="checkbox"/> <u>6016512</u>	January 2000	Huitema	709/245

OTHER PUBLICATIONS

Active transaction integrated with real-time transactions according to data freshness, Shimakawa et al., ieeexplore.ieee.org, pp. 321-328 and, 1997.
A distributed web server and its performance analysis on multiple platforms, Liu et al., ieeexplorer.ieee.org, pp. 665-672, 1996.

ART-UNIT: 276

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ABSTRACT:

Web pages for commercial applications, such as electronic retail, are built "on-the-fly" in Hypertext Markup Language (HTML) from product data stored in the merchant's database. To reduce costs in time and computing resources and to improve customer access to data from the merchant's web site, pages created in HTML are cached on the merchant server. On a customer request for a page, the merchant server checks the cache first for the page, and if it isn't found there, generates a new page from the database. To maintain the validity of the content of the cached pages, the database tables include triggers that cause identifying information for any changes made on the stored data to be forwarded to a cache log. A synchronization daemon walks the cache log from time to time to locate pages that should be purged from the cache because their content is no longer synchronous with the data stored in the database. By setting preferences for identifiable customers in advance, data generated from the database can be selected for specific customer groups.

14 Claims, 4 Drawing figures